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EnvironmentalLights.com

# Traxon Light Drive

Part number: TLD

Traxon Light Drive
DMX Multi-Zone Controller
Remote Control sold separately or with controller

The TLD ships with two custom cables, like the one at left, plus the power supply shown at right.

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The Traxon Light Drive is a state-of-the-art multi-zone DMX controller. Its many sophisticated functions are described in the owner's manual that follows our circuit diagram on page 3.

The wall-mount device and its optional remote directly accesses connected fixtures in two or more lighting zones and tunes the color and brightness to suite the mood by turning a wheel. Six memory slots permit individual settings that can be recalled at any time by the touch of a button or by remote control. Two sequence modes enable a continuous replay of all saved color settings as well as an adjustable preset color phase function. Also features a dimmable white mode. A set of switches on the back of the wall mount allows you to specify how many zones you have.

EnvironmentalLights.com has designed a custom cable that enables you to supply power to the TLD and connect the TLD to your DMX decoders to drive Red-Green-Blue LED strips from EnvironmentalLights.com.

We ship the Traxon Light Drive with two of these special cables to enable you to connect both DMX outputs on the back of the Light Drive directly to our decoders. You must apply power to the Traxon Light Drive through exactly one of these special cables. The Light Drive itself consumes very little power, so one of our small 12 watt 12 Volt DC adapters is adequate. The power that lights your LEDs is applied to the decoder or further down the line, if you use amplifiers.

The male RJ45 end of the cable plugs into either port on the back of the light drive. About 10 feet away, the power and female RJ45 jacks allow you to connect power and a male-to-male RJ45 jumper to you decoder, respectively. 10 feet allows you to run from the wall-mount TLD up into the air plenum or attic, down into the basement, or to another convenient location for the rest of your system. The TLD also ships with 2 male-to-male RJ45 jumpers to connect your custom cable to your decoder. In short, you should have everything you need to make the Traxon Light Drive operate your RGB LEDs, if you remember to buy:

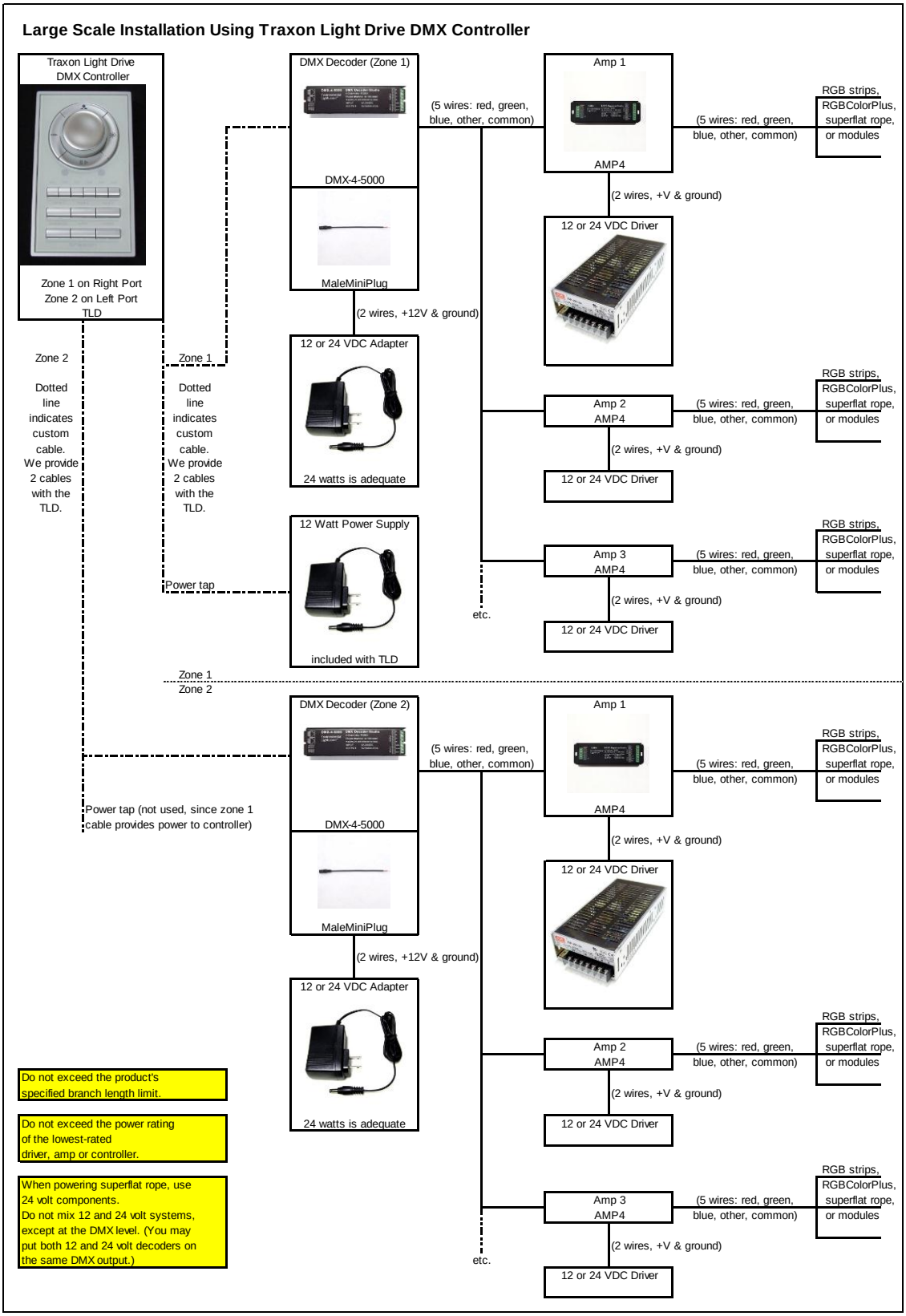
- Decoder (or two) and its 12 volt DC power supply (or two)
- Amplifier(s) and power supplies, if necessary
- RGB or RGB Color Plus LED strips and connectors

You *can* have a very elegant, easy-to-use multi-zone controller with a remote control, and we *can* make it control any of our RGB strip lights or modules.

## Detailed Wiring Instructions

EnvironmentalLights.com provides detailed wiring instructions for our LED linear lighting (flex strips, superflat rope, modules and rigid strips.) In addition, we provide the design criteria charts that tell you how many feet, LEDs, modules, reels or other units you can put on a) each branch and b) each drive unit. A drive unit can be a controller, decoder or amp. This document is LED Color-Mixing Linear Lighting Manual. Please be sure to check this document for relevant information for your installation. This controller is fairly easy to wire. For larger installations, you need to follow our basic guidelines to get the outstanding results you seek.

# Circuit Diagram for Traxon Light Drive


Large Scale Installation Using Traxon Light Drive DMX Controller
Traxon Light Drive DMX Controller
Zone 1 on Right Port
Zone 2 on Left Port
TLD
Zone 2
Dotted line indicates custom cable. We provide 2 cables with the TLD.
Zone 1
Dotted line indicates custom cable. We provide 2 cables with the TLD.
DMX Decoder (Zone 1)
DMX-4-5000
MaleMiniPlug
(2 wires, +12V & ground)
12 or 24 VDC Adapter
24 watts is adequate
12 Watt Power Supply
included with TLD
Power tap
(5 wires: red, green, blue, other, common)
Amp 1
AMP4
(5 wires: red, green, blue, other, common)
RGB strips, RGBColorPlus, superflat rope, or modules
(2 wires, +V & ground)
12 or 24 VDC Driver
Amp 2
AMP4
Amp 3
AMP4
etc.
Zone 1
Zone 2
DMX Decoder (Zone 2)
Power tap (not used, since zone 1 cable provides power to controller)
Do not exceed the product's specified branch length limit.
Do not exceed the power rating of the lowest-rated driver, amp or controller.
When powering superflat rope, use 24 volt components.
Do not mix 12 and 24 volt systems, except at the DMX level. (You may put both 12 and 24 volt decoders on the same DMX output.)

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# TRAXON LED **LIGHT-DRIVE**

experience the new dimension in architectural LED lighting control

Tune Your Color

Preview Your Color

Control Your Speed

Set Your Brightness

Play/Pause Your Light Show

Save Your Light Settings
(six memory slots per zone)

Remote Server Access
(Dedicated to Micro Server II, available Q3/2008 )

Create Spaces With Light

Sequence Function

i-wash Function

White Mode

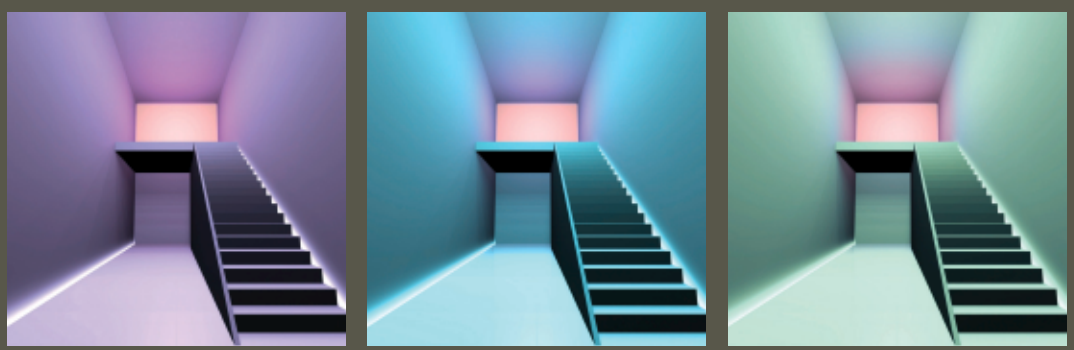
Use the Light Drive IR remote control to recall all functions on the Light-Drive from a distance.

Traxon's Light-Drive is an innovative plug'n'play DMX controller for RGB LED fixtures. The wall-mount device provides direct access to connected fixtures in two lighting zones.
Tune the color and brightness of LED fixtures to suit mood and function by the turn of the Light-Drive wheel. Six memory slots allow you to save individual settings and can be recalled anytime by the touch of a button or by remote control. Two sequence modes enable a continuous replay of all saved color settings as well as a preset colorphase function, which can be adjusted in replay speed - or simply turn the fixtures to dimmable white mode at the touch of a button. The DMX-based standalone controller puts the world of colors at your fingertips.

## Memory Function [ ]

Set and save up to 6 color-intensity settings per zone

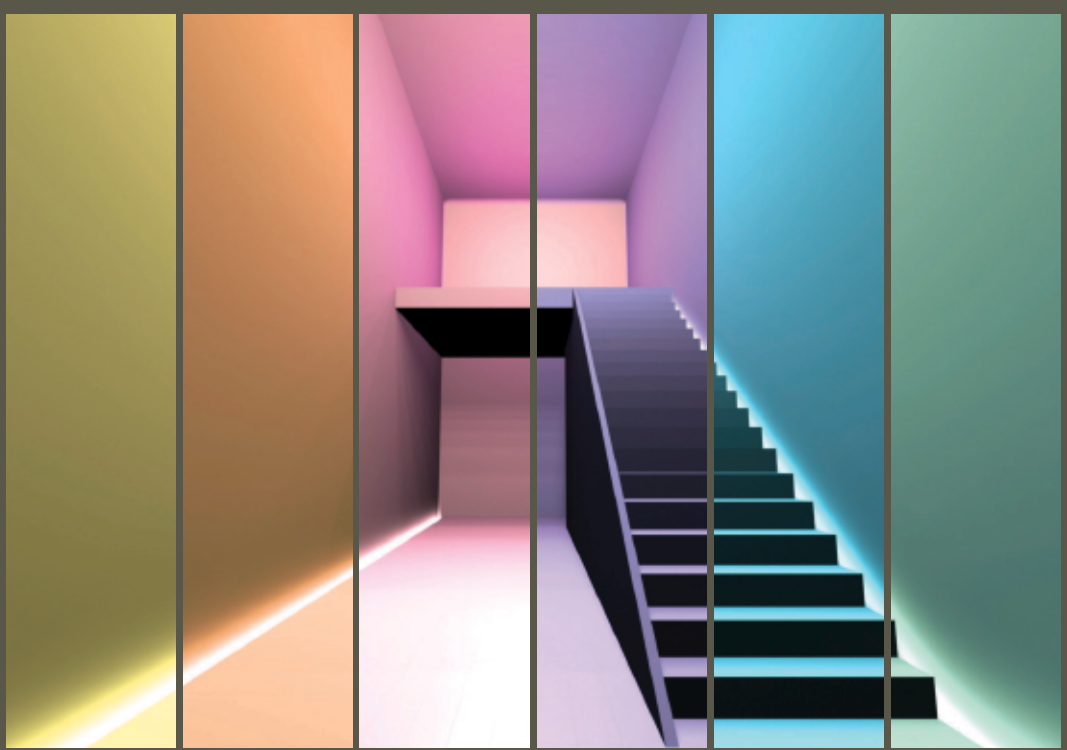
M1 M2 M3



M4 M5 M6

## Sequence Function [ ]

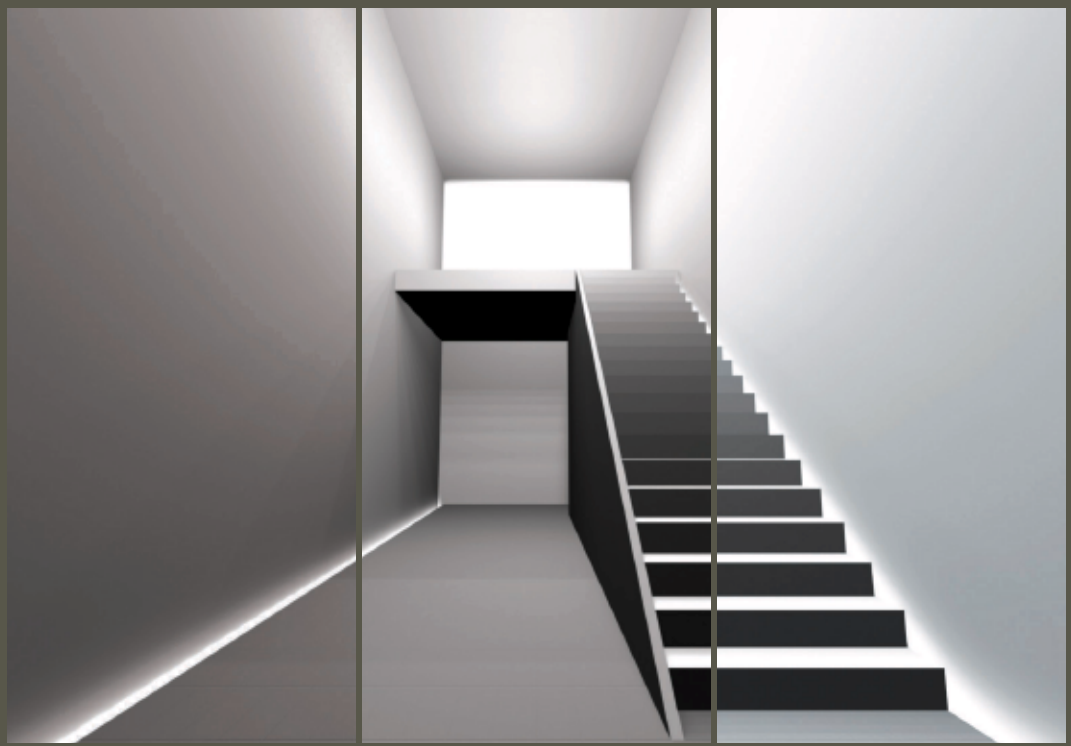
Replay a fade-sequence across all saved color settings and adjust the replay speed and brightness



M1 ▶ M2 ▶ M3 ▶ M4 ▶ M5 ▶ M6 ▶

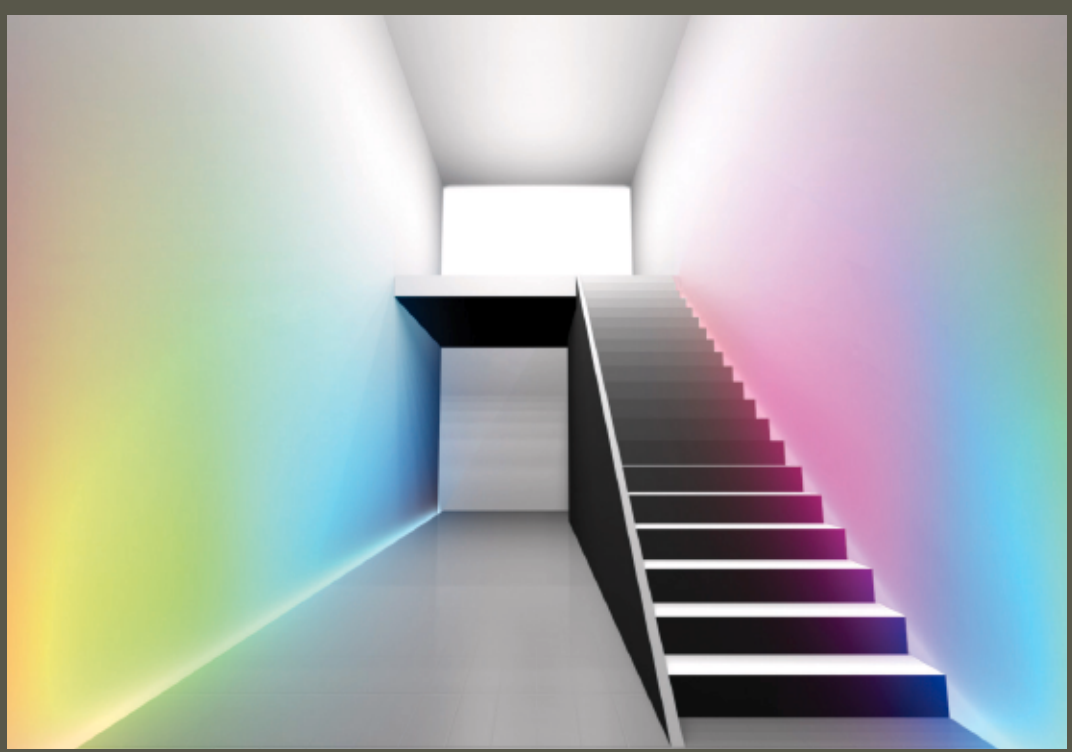
## White Mode [ ☀ ♣ ]

Switch all RGB fixtures to White (full RGB) at the touch of a button
Use the Light-Drive as a dimmer
Adjust the color temperature by turning the Light-Drive wheel



## i-wash Function [ ☀ ▸▸► ⏸ ▶ ]

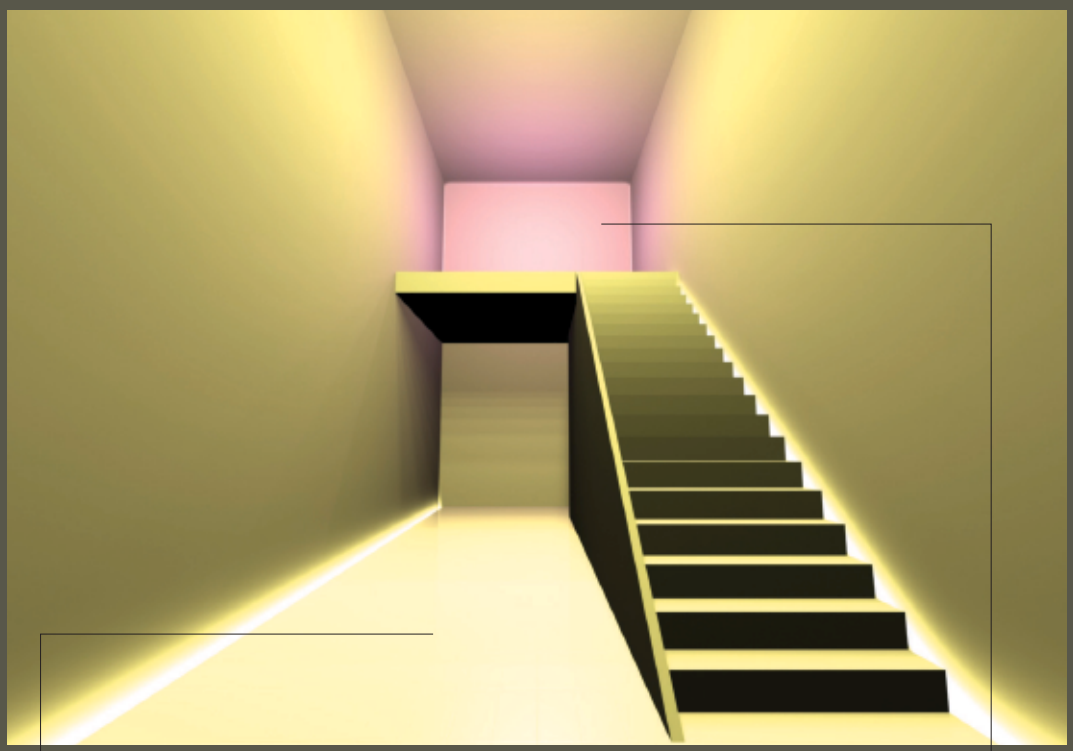
Replay a preset rainbow colorphase and control speed and intensity
Set the number of attached fixtures/1PXL-clusters via dip switch and replay a dynamic chase mode across the fixtures connected in Zone 1



# CREATE SPACES WITH LIGHT

## Scenario A

Divide one room into different spacial areas

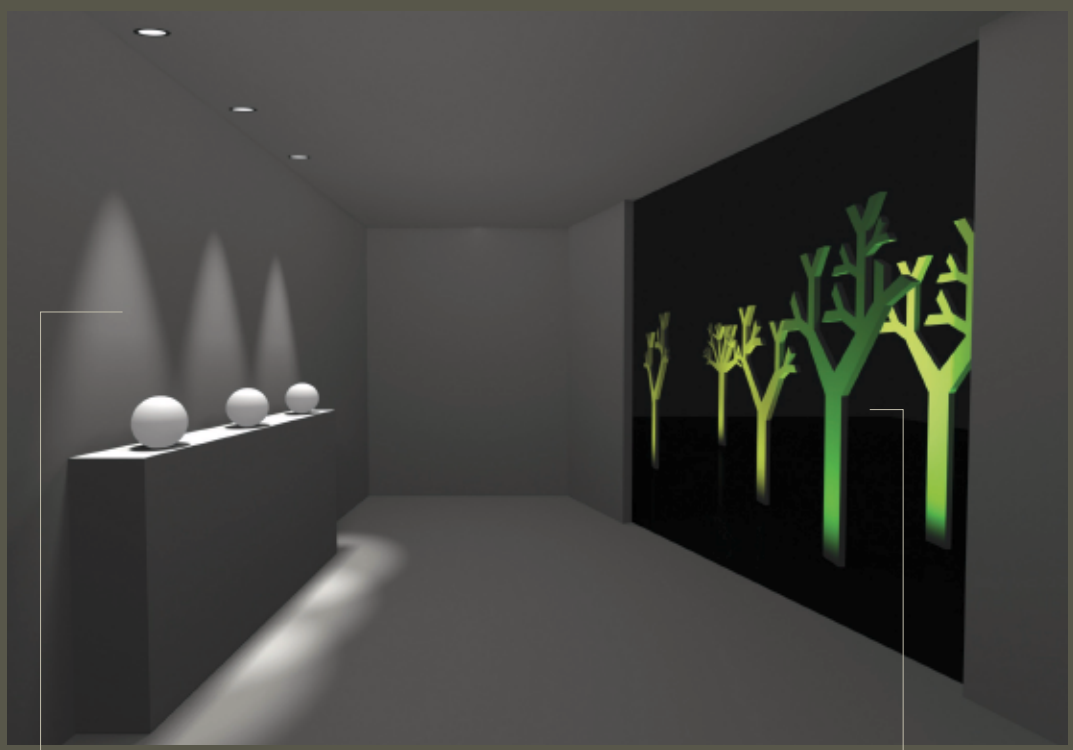


Zone 1

Zone 2

## Scenario B

Control separate areas with a single Light-Drive controller

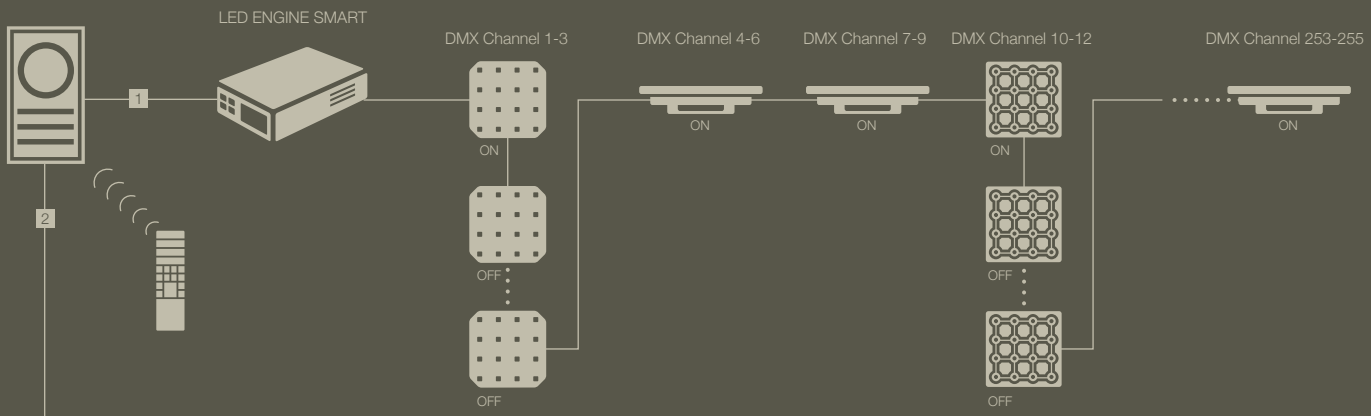


Zone 1 ( indoor )

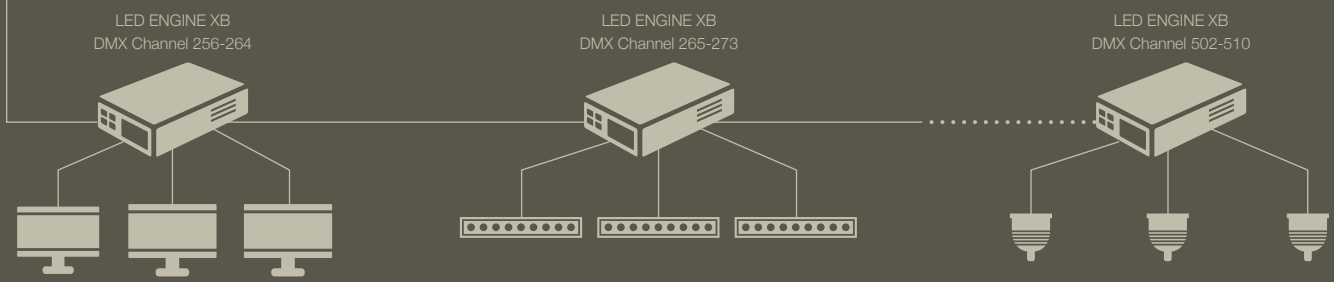
Zone 2 ( outdoor )

## TRAXON LED LIGHTING SYSTEM

A Scalable Solution - Extend the number of fixtures using TX CONNECT to match any size of installation



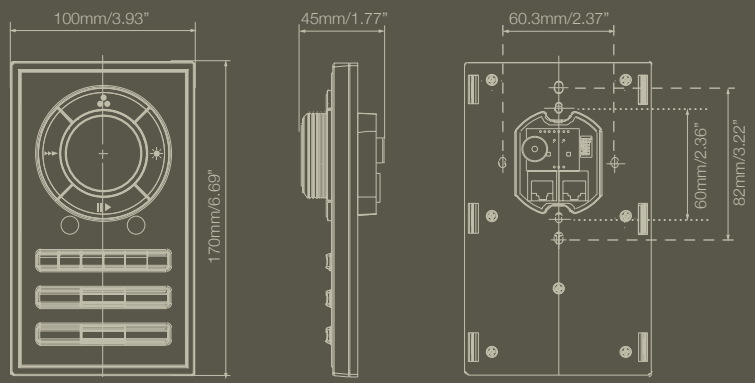

*1 Control up to 85x 1PXL fixtures or more when using Traxon Smart Chip™ products with Auto Addressing OFF function. Additional LED Engine Smart PSUs and DMX Booster (DI.AC.0200100) units may be required, depending on installation configuration. Please refer to TX Connect System Manual and Product Specifications for full details.




*2 Control up to - 85 x Wall Washer XB-36
- 170 x Liner XB-18 (Total: 110m)
- 1020 x Spot XB-3
with a single Light Drive™ controller

Using Traxon LED Engine XB's DMX channel doubling function and/or active DMX Splitter (DI.AC.0200100) units, the number of controlled fixtures per Light-Drive can be expanded. Please refer to LED Engine XB User Manual and TX Connect System Manual for further details.

## TECHNICAL DIMENSIONS




### LIGHT DRIVE RGB
**SC.CD.5000000**

Dimensions: (L x W x H) 100mm x 170m x 45mm, 3.93" x 6.69" x 1.77"

Weight: 270g, 0.59lbs

### LIGHT DRIVE RGB REMOTE CONTROL
**SC.AC.0100100**

Dimensions: (L x W x H) 200mm x 45m x 20.3mm, 7.87" x 1.77" x 0.79"

Weight: 120g, 0.26lbs

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# USER MANUAL

## LIGHT-DRIVE RGB

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HONG KONG NEW YORK PARIS TOKYO RIO DE JANEIRO FRANKFURT MELBOURNE SHANGHAI BIRMINGHAM ROTTERDAM

Manual - Version 1.0

# USER MANUAL

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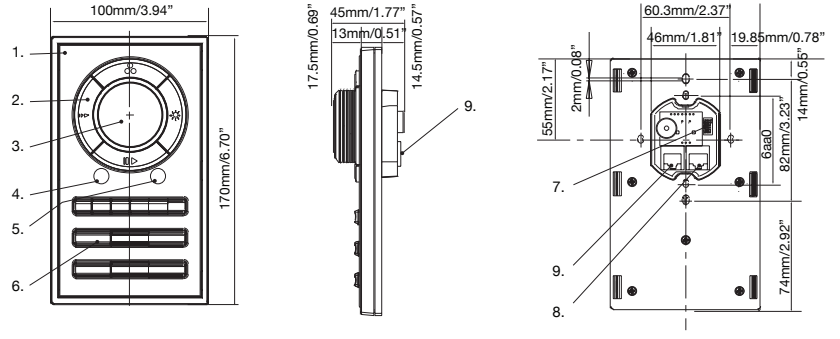
# 1. INTRODUCTION

LIGHT DRIVE RGB  SC.CD.5000000 (BLACK)
LIGHT DRIVE RGB  SC.CD.5000100 (WHITE)

The wall mount unit is a standalone DMX controller for RGB LED fixtures. The device provides direct access to connected DMX devices enabling control of color and brightness. Memory slots allow color presets. A sequence and i-wash mode offer dynamic scene playback.
The device comes with a sophisticated user interface providing colored keys as well as a jog dial for setting values.
The device is designed as a plug & play unit (no configuration needed).




1. Light-Drive cover
2. Function buttons (Color, Brightness, Speed, Play/ Pause)
3. Jog dial / ON-OFF switch
4. Proximity sensor
5. IR sensor
6. Function buttons (Memory slots m1-m6, Zone1, Zone2, ZoneX, Sequence Function, White Mode, iWash Function)
7. DIP switch
8. Output 1
9. Output 2



## 1.1 SAFETY INSTRUCTION

FOR YOUR OWN SAFETY AND THAT OF THE PRODUCT, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE BEGINNING SET-UP AND INSTALLATION!

### ⚠ WARNING

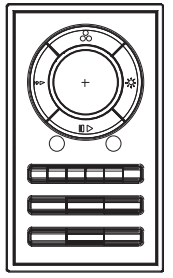
- Unpack and check carefully that there is no transportation damage before using the unit.
- Do not touch any printed circuit board without suitable hand protection.
- The maximum ambient temperature is 40°C.
- In the event of serious operating problems, stop using the unit immediately.
- The switch box installation should be performed carefully.
- Always use spare parts identical to those of the original unit.
- Do not touch any wire during operation as high voltage may cause electric shock.

### ⚠ CAUTION

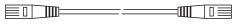
- Keep the outer case of the fixture clean with a soft cloth.
- Audio/Visual such as television and radio may interfere with the device performance. Keep in mind not to use such devices in close proximity to the unit.
- There are no parts which are intended to be serviced or maintained by the user. Do not attempt any repairs without the assistance of a trained professional. In the event your unit may require service, please contact your nearest dealer.

## 2. CONTENTS

LIGHT-DRIVE RGB (SC.CD.5000000) BLACK  LIGHT-DRIVE RGB (SC.CD.5000100) WHITE



1 X Light-Drive RGB

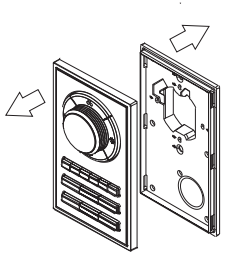


2 X TX Connect Data Cable (DMX)

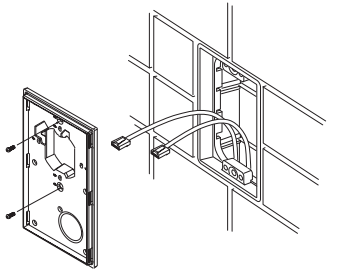
4 X Mounting Screws

## 3. INSTALLATION

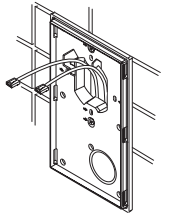
The Light-Drive unit installs easily and quickly with the use of a switch box (optional). The base plate of the Light-Drive has preset mounting holes for international switch box dimensions.



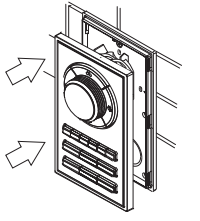
1. Carefully seperate the Light-Drive cover and base

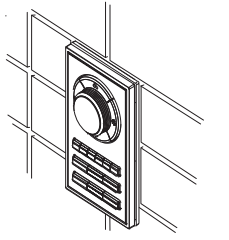


2. Set position of swtich box (optional)

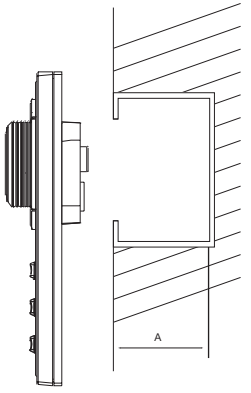


3. Mount Light-Drive base with appropriate screws





4. Connect output cables and click Light-Drive cover back into place




1. Switch box depth (A) must be at least 35mm/1.38” to install.
   Please check your local swtich box size before installation.
2. Light Drive unit supports UK, EU, USA, and JP standard switch box dimensions.
3. The switch box installation should be performed carefully.
4. Be careful to avoid touching the PCB with a bare hand.
5. DO NOT power up the unit until all installation steps are completed.



# 4. SYSTEM CONFIGURATION

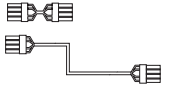
## 4-1. TX Connect

TX Connect is an easy and user friendly plug’n’play connection system for TRAXON products.

Connection Accessories

TX CONNECT Smart
Data (DMX) Cable

| | |
|---|---|
| 0.2m | DI.IC.0020000 |
| 1m | DI.IC.0100000 |
| 3m | DI.IC.0300000 |
| 5m | DI.IC.0500000 |
| 10m | DI.IC.1000000 |
| 20m | DI.IC.2000000 |



TX CONNECT Smart
Interconnection Cable

| | |
|---|---|
| 8cm | TI.IC.0008000 |
| 30cm | TI.IC.0030000 |
| 60cm | TI.IC.0060000 |

AC Power Cable,2m

| | |
|---|---|
| EU | PS.AC.0000100 |
| US | PS.AC.0000200 |
| UK | PS.AC.0000300 |
| AU | PS.AC.0000400 |
| JP | PS.AC.0000500 |

TX CONNECT Smart
Power/Data Injector Box

TI.ZI.0000100

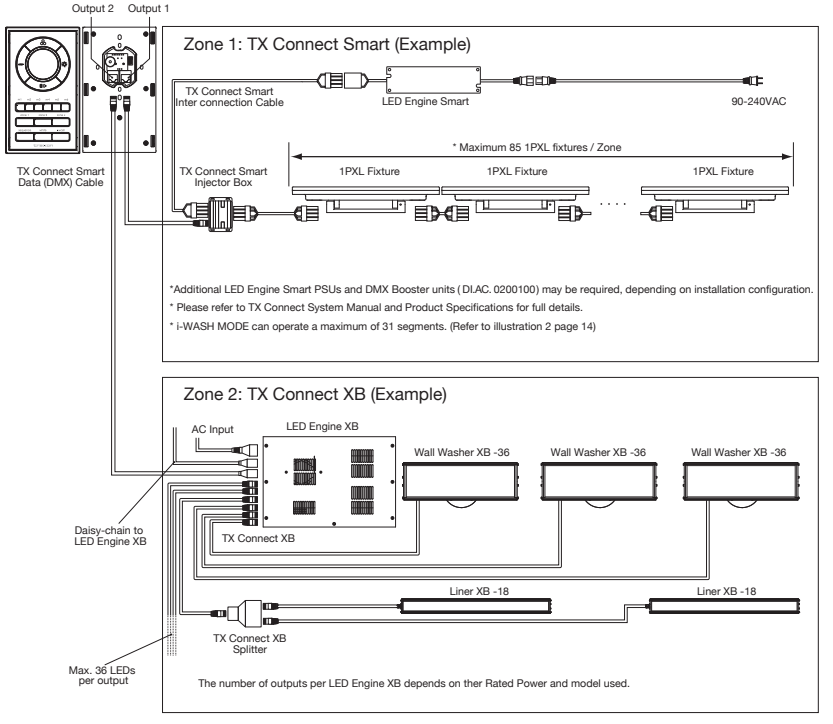
TX CONNECT Smart
Data Extractor Box

TI.DO.0000100

LED Engine Smart
100W Indoor

PS.IA.0010000

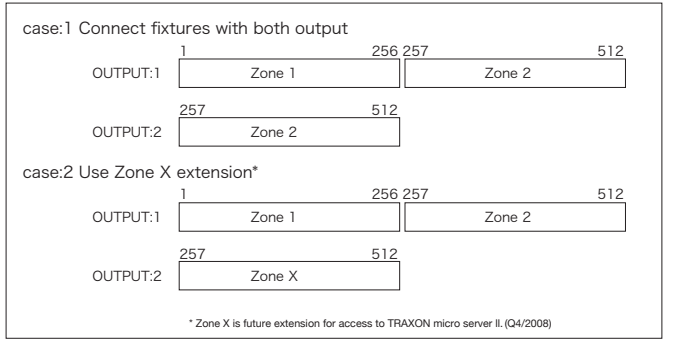
## 4-2. System Diagram


Output 2
Output 1
Zone 1: TX Connect Smart (Example)
TX Connect Smart
Inter connection Cable
LED Engine Smart
90-240VAC
TX Connect Smart
Data (DMX) Cable
TX Connect Smart
Injector Box
* Maximum 85 1PXL fixtures / Zone
1PXL Fixture
1PXL Fixture
1PXL Fixture
*Additional LED Engine Smart PSUs and DMX Booster units ( DI.AC. 0200100) may be required, depending on installation configuration.
* Please refer to TX Connect System Manual and Product Specifications for full details.
* i-WASH MODE can operate a maximum of 31 segments. (Refer to illustration 2 page 14)
Zone 2: TX Connect XB (Example)
AC Input
LED Engine XB
Wall Washer XB -36
Wall Washer XB -36
Wall Washer XB -36
Daisy-chain to
LED Engine XB
TX Connect XB
Liner XB -18
Liner XB -18
TX Connect XB
Splitter
Max. 36 LEDs
per output
The number of outputs per LED Engine XB depends on ther Rated Power and model used.

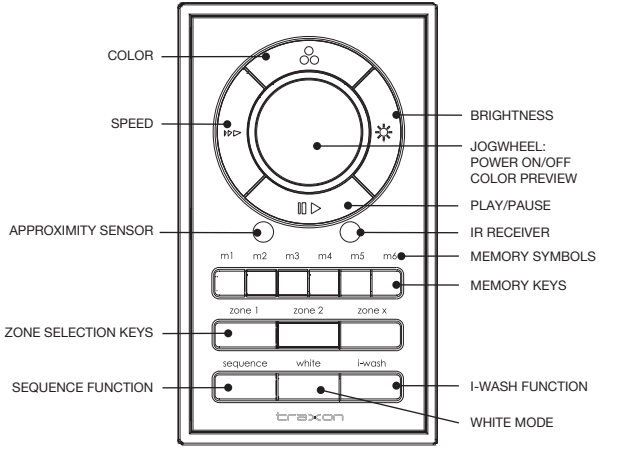
Note: The above shown configurations are examples only. The Light-Drive can be used with any 1PXL RGB lighting fixture (Module, Board, Cove Light, Strip).In the case of applications using XB line fixtures only ( Wall Washer XB, Liner XB, Nano Liner XB, Spot XB) use the new series LED Engine XB ( PX.IC.xxxxxxx/PX.ID.xxxxxxx ) available Q4, 2008. Please refer to your local Traxon dealer for more details.



DMX address chart of each output (Refer page1. Output)




# 5. FUNCTIONS



## 5-1. JOG/NAVIGATION

- Pushing the Jog-wheel activates/deactivates the unit.
- By default the Jog wheel modifies the BRIGHTNESS of the selected zone. Turning the wheel clockwise, increases the intensity and vice versa. (The Jog-wheel is back lit with RGB LEDs.)
- When the unit is set to BRIGHTNESS MODE, the Jog back light is white. The unit automatically switches to this mode after being idle for 10 seconds.
- Pressing the COLOR button activates COLOR MODE. The Jog-wheel back light synchronizes with current color output of selected zone.
- By turning the Jog-wheel you can select any RGB color.
- The SPEED button is only active during playback in SEQUENCE/i-WASH function.
- During playback in SEQUENCE or i-WASH function, playback can be paused or continued by pressing the PLAY/PAUSE button.
- During all other modes, the unit switches to SEQUENCE function by pressing the PLAY/PAUSE button.
- The LED display of the MEMORY buttons indicate the current speed as a “bar graph”: No LEDs ON - slowest replay speed, all LEDs ON - fastest replay speed.
- All buttons are equipped with LED backlight. These are activated by a proximity sensor. In idle mode, they will automatically turn off after 5 seconds, the Jog-wheel after 10 seconds.



## 5-2 MODES

### 5-2.1 MEMORY MODE

Press M1-M6 to save and recall color settings in selected zone (from any other mode, press any memory key for 1 second to go into MEMORY MODE).

- Brightness:
  - Turn Jog-wheel to increase /decrease brightness.
  - Press Brightness for 2 seconds to set brightness to 100%.
  - Press M1-M6 for 2 seconds to save current color setting to memory (short beep confirms saving).
- Color:
  - Turn jog-wheel to change color.
  - Jog-wheel back light displays output color.
  - Press M1-M6 for 2 seconds to save current color setting to memory (short beep confirms saving).
- Speed:
  - N/A
- Play/Pause
  - Unit enters SEQUENCE function

### 5-2.2 SEQUENCE FUNCTION

Press the Sequence button to activate SEQUENCE function in the selected zone.

- Brightness:
  - Turn Jog-wheel to increase /decrease brightness.
  - Press Brightness for 2 seconds to set brightness to 100%.
- Color:
  - Unit enters COLOR MODE
- Speed:
  - Turn Jog-wheel to increase /decrease speed.
  - Memory symbols show the speed as a “bar graph”
- Play/Pause
  - Pauses the current replay (Play/Pause is blinking)

### 5-2.3 WHITE FUNCTION

Press the WHITE button to activate WHITE MODE in the selected zone.

- Brightness: • Turn Jog-wheel to increase / decrease brightness.
  • Press Brightness for 2 seconds to set brightness to 100%.
- Color: • Turn Jog-wheel to fade between Warm White and Cold White.
- Speed: • N/A
- Play/Pause • Unit enters SEQUENCE function

### 5-2.4 i-WASH FUNCTION

Press the i-Wash button to activate iWash function (soft fade on the outer color circle range [RGB]) in the selected zone. In Zone 1 the devices replays the color fade sequentially over several devices (see point.6).

- Brightness: • Turn Jog-wheel to increase / decrease brightness.
  • Press Brightness for 2 seconds to set brightness to 100%.
- Color: • Unit enters COLOR MODE
- Speed: • Turn Jog-wheel to increase / decrease speed.
  • Memory symbols show the speed as a “bar graph”
- Play/Pause • Pauses the current iWash replay (Play/Pause is blinking)

### 5-2.5 ZONE 1 / ZONE 2 / ZONE X

This unit offers access to three different zones. By pressing the Zone buttons you can access the specified zone. Each Zone button has a LED back-light to mark the currently selected zones.

- Zone 1: • Controls 256 DMX channels on output 1
- Zone 2: • Controls 256 DMX channels on output 2
- Zone X: • This button gives access to an external server via e:bus (Function available Q4/2008, refer to your Traxon Partner for further information.)



### 5-2.6 IDLE MODE

After 10 seconds without interaction, the unit goes into Idle-Mode automatically.

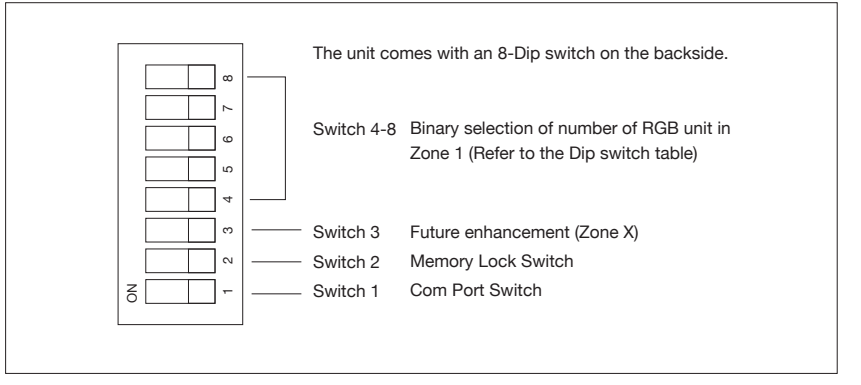
- All LED backlight turn off.
- All active Sequence/i-Wash modes keep running. ( If the Proximity Sensor registers any activity, the unit will automatically enter the last active mode.)

### 5-2.7 SPECIAL FUNCTIONS

Press Zone 1 and Zone 2 button simultaneously and hold for 2 seconds to copy all memory setting (M1-M6) of Zone 1 into Zone 2 (short beep confirms saving).

## 6. DIP-SWITCH SETTINGS

### 6-1. DIP OVERVIEW



## 6-2. MEMORY LOCK SWITCH

A memory lock switch on the backside of the unit disables any user change of memory slot presets.

## 6-3. SETTING NUMBER OF DEVICES IN ZONE 1

The DIP switch settings allows you to set the number of fixtures/light segments for the dynamic iWash function in Zone 1 (See table below).
The Light-Drive will address the first 31 sets of RGB channels (93 DMX channels), i.e. if all fixtures are set to Auto-Addressing ON, the iWash function will be displayed on the first 31 fixtures only (Illustration 1). In order to set the light segments for the iWash function, please set the fixtures that are to follow one segment to Auto-Addressing OFF (Illustration 2).

Illustration 1

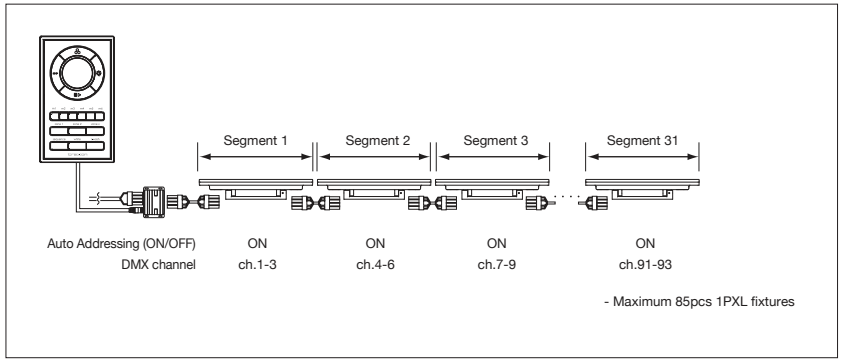
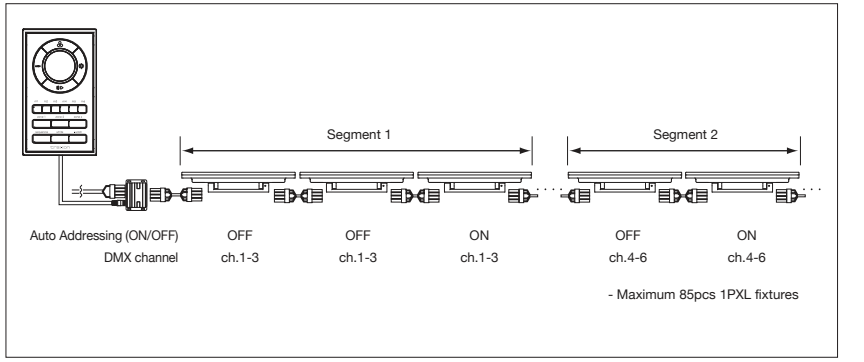



Illustration 2



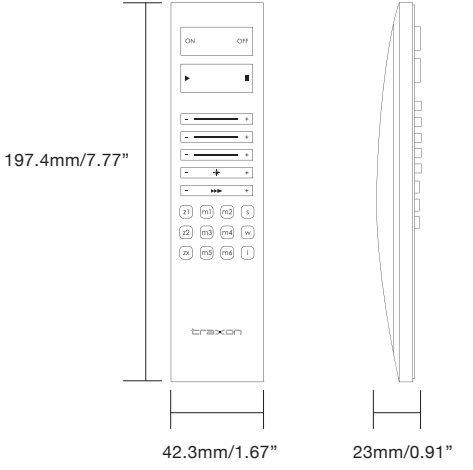

| | DIPSWITCH | | | | |
|---|---|---|---|---|---|
| # Fixtures / Light Segments | 4 | 5 | 6 | 7 | 8 |
| All | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 | 0 |
| 2 | 0 | 1 | 0 | 0 | 0 |
| 3 | 1 | 1 | 0 | 0 | 0 |
| 4 | 0 | 0 | 1 | 0 | 0 |
| 5 | 1 | 0 | 1 | 0 | 0 |
| 6 | 0 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 0 | 0 |
| 8 | 0 | 0 | 0 | 1 | 0 |
| 9 | 1 | 0 | 0 | 1 | 0 |
| 10 | 0 | 1 | 0 | 1 | 0 |
| 11 | 1 | 1 | 0 | 1 | 0 |
| 12 | 0 | 0 | 1 | 1 | 0 |
| 13 | 1 | 0 | 1 | 1 | 0 |
| 14 | 0 | 1 | 1 | 1 | 0 |

| | DIPSWITCH | | | | |
|---|---|---|---|---|---|
| # Fixtures / Light Segments | 4 | 5 | 6 | 7 | 8 |
| 15 | 1 | 1 | 1 | 1 | 0 |
| 16 | 0 | 0 | 0 | 0 | 1 |
| 17 | 1 | 0 | 0 | 0 | 1 |
| 18 | 0 | 1 | 0 | 0 | 1 |
| 19 | 1 | 1 | 0 | 0 | 1 |
| 20 | 0 | 0 | 1 | 0 | 1 |
| 21 | 1 | 0 | 1 | 0 | 1 |
| 22 | 0 | 1 | 1 | 0 | 1 |
| 23 | 1 | 1 | 1 | 0 | 1 |
| 24 | 0 | 0 | 0 | 1 | 1 |
| 25 | 1 | 0 | 0 | 1 | 1 |
| 26 | 0 | 1 | 0 | 1 | 1 |
| 27 | 1 | 1 | 0 | 1 | 1 |
| 28 | 0 | 0 | 1 | 1 | 1 |
| 29 | 1 | 0 | 1 | 1 | 1 |
| 30 | 0 | 1 | 1 | 1 | 1 |
| 31 | 1 | 1 | 1 | 1 | 1 |



## 7. IR REMOTE CONTROL (SC.AC.0100100)

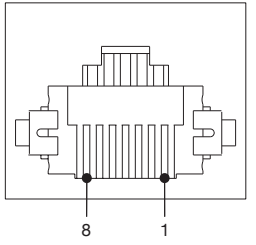
The IR Sensor is able to receive IR signals from the dedicated Light-Drive Infrared Controller. The remote control activates and recalls all functions on the Light-Drive. (Except storing color settings on m1-m6 and zone1 to zone 2 copying.)



## 8. ELECTRONICS

### 8-1. PIN ASSIGNMENT OF OUTPUT CONNECTORS

The PIN assignment of the two DMX outputs (female RJ45 ports) is as follows:




| | |
|---|---|
| 1 | DMX - |
| 2 | DMX + |
| 3 | GND |
| 4 | Power GND |
| 5 | Power +24VDC |
| 6 | GND |
| 7 | No function |
| 8 | No function |

### 8-2. POWER SUPPLY

The unit is powered by an external PSU running at 24 VDC. Power is only supplied via RJ45 pins. Both RJ45 Plugs provide blocking diodes against cross-current of different levels.

### 8-3. TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Dimension: | 100mm x 170mm x 45mm / 3.93” x 6.69” x 1.77” |
| Weight: | 120g / 0.26lbs |
| Operating Voltage: | 24VDC |
| Current Consumption: | 60mA |
| Power Consumption: | 1.5 Watt |
| Remote controllable: | Yes |
| Operating Temperature: | 0 ℃ ~ + 50 ℃ ( +32 ℉ ~ +122 ℉) |
| Environment: | Indoor |

CE



## 9. CARE AND MAINTENANCE

Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill warranty obligations and gain maintain a quality product.

- Make sure that the power is switched off before installation and/or maintenance
- Make sure that the products are installed correctly and securely
- For indoor use only
- Keep products in a dry and precipitation free area as this may damage the products’ electronics.
- Keep products in a dirt and dust free environment
- Make sure the products are not exposed to extreme heat and that they have sufficient airflow and cool air circulation if required
- Do not attempt to service or repair the products unless done by an authorized service personnel. Contact the local Traxon office or distributor for details
- Do not drop, knock or shake the products as rough handling may damage the electronics and void the warranty
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean. Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust.

If the products are not working correctly, please contact your nearest authorized service centre or Traxon office for assistane.

## 10. WARRANTY STATEMENT

Traxon warrants its Products against material or workmanship defects for a period of two (2) years from date of purchase, provided that the purchased items are used under the conditions stated in this user manuals.

Please refer to the Product Warranty section under www.traxontechnologies.com/terms for warranty terms and conditions.

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# Light-Drive RGB

SC.CD.5000000
(Black)

SC.CD.5000100
(White)

The Light-Drive RGB is a standalone DMX controller for RGB LED fixtures. Two RJ45 outputs provide direct access to connected fixtures via TX Connect Data. Optional Remote Control is available.
Adjust color, brightness and speed of connected fixtures in two areas. Replay up to 12 saved light settings or other dynamic RGB sequences.

CE UL

INDOOR

## PRODUCT SPECIFICATION

- **Function:** Standalone DMX Controller for RGB LED fixtures

## DATA INTERFACE

- **TX CONNECT Data:** 2 x RJ45
- **DMX Channels:** Output1: 1-510 (Zone1 and Zone2); Output2: 256-510 (Zone2)
- **IR Receiver:** Light-Drive RGB IR Remote [SC.AC.0100100]

## PROGRAM / RECALL

- **Jog + RGB:** Set Color (Temperature)
- **Jog + Brightness:** Set Brightness/Intensity
- **Jog + Speed:** Set replay speed of sequences
- **Jog + Play/Pause:** Freeze or play sequences
- **Memory Buttons:** Save 6 color-intensity settings per zone
- **Zones:** Access light fixtures in two zones (+ e:bus remote access to Micro Server II)
- **Sequence Function:** Dynamic replay of saved settings per zone
- **White Mode:** Switch connected fixtures to White (full RGB) per zone
- **i-Wash Function:** Dynamic color-phase on fixtures
- **via IR Remote Control:** Recall all functions using Light-Drive RGB IR Remote [SC.AC.0100100]
- **DIP Switch:** Memory lock function;
  Binary selection for number of 1PXL fixtures connected in Zone1 (max. 85 1PXL fixtures)

## POWER

- **PoTX (Power over TX Connect Data):** Power-back via RJ45 from TX Connect Smart products
- **Ext. Power supply:** 9 to 24V DC

## MISCELLANEOUS

- **Dimensions:** 100mm x 170mm x 45mm / 3.93" x 6.69" x 1.77"
- **Weight:** 0.27kg / 0.59lbs



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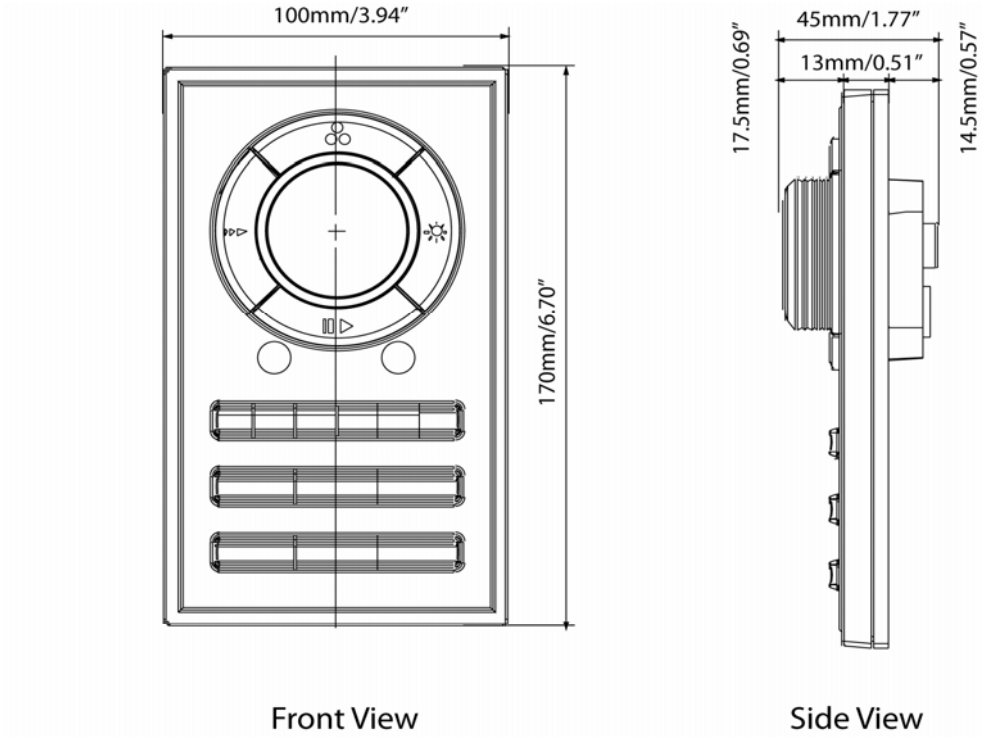
Light-Drive RGB

**Dimensions**

## TECHNICAL DRAWING




Front View

Side View

Back View



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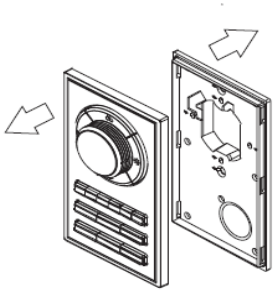
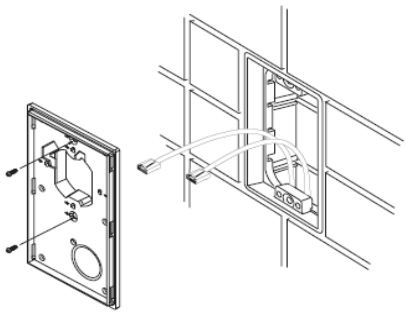
Light-Drive RGB

**Mounting**

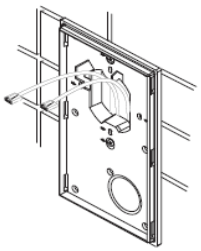
## MOUNTING OPTIONS



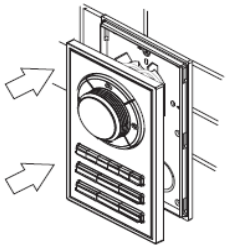
1. Carefully separate the Light-Drive cover and base.



2. Set position of switch box.



3. Mount Light-Drive base with appropriate screws.



4. Connect output cables and click Light-Drive cover back to the base.

Note: The unit is to be handled in a static free environment



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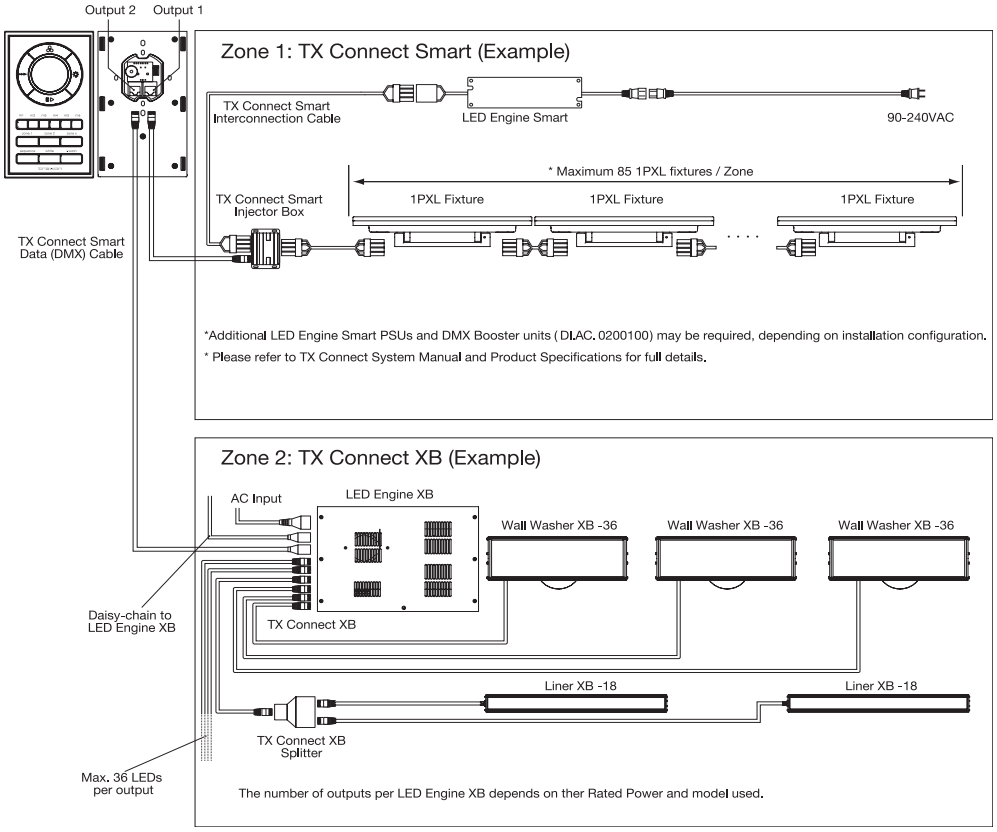
Light-Drive RGB

# System Diagram

## SYSTEM DIAGRAM


Output 2
Output 1
Zone 1: TX Connect Smart (Example)
TX Connect Smart
Interconnection Cable
LED Engine Smart
90-240VAC
* Maximum 85 1PXL fixtures / Zone
TX Connect Smart
Injector Box
1PXL Fixture
1PXL Fixture
1PXL Fixture
TX Connect Smart
Data (DMX) Cable
*Additional LED Engine Smart PSUs and DMX Booster units (DLAC. 0200100) may be required, depending on installation configuration.
* Please refer to TX Connect System Manual and Product Specifications for full details.
Zone 2: TX Connect XB (Example)
AC Input
LED Engine XB
Wall Washer XB -36
Wall Washer XB -36
Wall Washer XB -36
Daisy-chain to
LED Engine XB
TX Connect XB
Liner XB -18
Liner XB -18
TX Connect XB
Splitter
Max. 36 LEDs
per output
The number of outputs per LED Engine XB depends on ther Rated Power and model used.



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Light-Drive RGB

**Accessories**

## STANDARD ACCESSORIES (included in delivery)

| Model No. | Description |
|---|---|
| DI.IC.0300000 | 2x TX CONNECT Data Cable, 3m/9.84ft |
| | 4x Mounting Screws |
| | |

## TX CONTROL

| Model No. | Description |
|---|---|
| SC.AC.0100100 | Light-Drive RGB IR Remote Control |
| | |

## TX CONNECT

| Model No. | Description |
|---|---|
| TI.ZI.0000100 | TX CONNECT Smart Power/Data Injector Box |
| TI.DO.0000100 | TX CONNECT Smart Data Extractor Box |
| TI.AC.0000100 | TX CONNECT Smart Addresser Box |
| DI.IC.0300000 | TX CONNECT Data Cable, 3m/9.8ft |
| DI.IC.0500000 | TX CONNECT Data Cable, 5m/16.4ft |
| DI.IC.1000000 | TX CONNECT Data Cable, 10m/32.8ft |
| DI.IC.2000000 | TX CONNECT Data Cable, 20m/65.6ft |
| DI.AC.0200100 | TX CONNECT Active Data Splitter/Booster |
| | |

• Please refer to the TX CONNECT System Manual for a complete system and component overview (incl. TX CONNECT Data).

## TX POWER

| Model No. | Description |
|---|---|
| PS.IA.0010000 | LED Engine Smart 100W Indoor |
| PS.AC.0000100 | AC Power Cord (EU), 2m/6.56ft |
| PS.AC.0000200 | AC Power Cord (US), 2m/6.56ft |
| PS.AC.0000300 | AC Power Cord (UK), 2m/6.56ft |
| PS.AC.0000400 | AC Power Cord (AU), 2m/6.56ft |
| PS.AC.0000500 | AC Power Cord (JP), 2m/6.56ft |
| | |

## MOUNTING ACCESSORIES

| Model No. | Description |
|---|---|
| | |



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